

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

150756

DATE: _____

SUBJECT: Review of Data
Received for Review on June 24, 1999

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Technical Support Section

for Steve Ostrodka
Richard L. Bynum
7/12/99

TO: Data User: IEPA

We have reviewed the data for the following case:

M R 112 7/12/99
SITE NAME: KRUMRICH PLANT (IL)

CASE NUMBER: 26993 SDG NUMBER: ECRR7

Number and Type of Samples: 19 Waters

Sample Numbers: ECRQ2, ECRR7 - ECRR9, ECRS0 - ECRS9, ECRT0, ECRT5, ECTR8, ECRT9, ECRW0

Laboratory: SWOK Hrs. for Review: 160+ 1.0

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.
Richard L. Bynum

RECEIVED

JUL 16 1999

IEPA-BOL-FSRS

CC: Cecilia Luckett Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 26993
Site Name: KRUMRICH PLANT (IL)

SDG Number: ECRR7
Laboratory: SWOK

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methylene Chloride

ECRQ2, ECRQ2MS, ECRQ2MSD, ECRR7, ECRR9, ECRS0, ECRS1, ECRS2, ECRS3, ECRS5, ECRT8, ECRT9, ECRW0, VBLK2, VBLK3, VBLK7, VHBLK1

Acetone, 1,2-Dichloropropane

ECRS4, ECRS9, ECRT0, VBLK5

2-Butanone

VBLK7, VHBLK1

4-Methyl-2-Pentanone

ECRR7, ECRR8, ECRR9, ECRS0, ECRS1, ECRS2, ECRT8, ECRT9, VBLK1, VBLK2, VBLK7, VHBLK1

2-Hexanone

ECRQ2, ECRQ2MS, ECRQ2MSD, ECRR7, ECRR9, ECRS0, ECRS1, ECRS2, ECRS3, ECRS4, ECRS5, ECRS9, ECRT0, ECRT8, ECRT9, ECRW0, VBLK2, VBLK3, VBLK5, VBLK7, VHBLK1

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2,2'-oxybis(1-Chloropropane)

ECRQ2, ECRQ2MS, ECRQ2MSD, ECRR8DL, ECRR9DL, ECRS0, ECRS0DL, ECRS1, ECRS2, ECRS3, ECRS4, ECRS5DL, ECRS6, ECRS7, ECRS8, ECRS9, ECRT0, ECRT9, ECRW0, SBLK4

N-Nitroso-di-n-propylamine, 2-Nitroaniline, 4,6-Dinitro-2-methylphenol

ECRS0DL, ECRS5DL

Case Number : 26993
Site Name: KRUMRICH PLANT (IL)

SDG Number: ECRR7
Laboratory: SWOK

Diethylphthalate
ECRR9, ECRS0, ECRS1, ECRS2, ECRT9

bis(2-Ethylhexyl)phthalate
ECRQ2, ECRQ2MS, ECRQ2MSD, ECRR7, ECRR9, ECRS0, ECRS1, ECRS2, ECRS3,
ECRS4, ECRS4DL, ECRS5, ECRS6, ECRS6DL, ECRS7, ECRS8, ECRS9, ECRT0, ECRT9,
ECRW0

The following volatile samples are associated with a contaminated storage blank. Hits and non-detects are not flagged.

Methylene Chloride
ECRQ2, ECRQ2MS, ECRQ2MSD, ECRS3, ECRS5, ECRS7, ECRS8, ECRT5, ECRW0

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile samples have one base/neutral surrogate recovery below the lower criteria and greater than 10%. Hits and non-detects are not flagged unless two or more surrogates within the same fraction are outside the criteria.

ECRR9DL

The following semivolatile samples have one acid surrogate recovery below the lower criteria and greater than 10%. Hits and non-detects are not flagged unless two or more surrogates within the same fraction are outside the criteria.

ECRQ2MSD

The following semivolatile samples have surrogate recoveries of less than 10% and a dilution factor which exceeds criteria. Hits and non-detects are not flagged.

ECRR8DL, ECRS5DL

The following semivolatile samples have two or more base/neutral surrogate recoveries below the lower limit of the criteria window and greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

ECRQ2MSD

The following diluted pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits and non-detects are not flagged.

ECRQ2DL, ECRR8DL, ECRS0DL

Case Number : 26993
 Site Name: KRUMRICH PLANT (IL)

SDG Number: ECRR7
 Laboratory: SWOK

semivolatile target analytes and five (5) SV TICs; and no pesticide/PCB target analytes. No samples were identified as field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

The following semivolatile samples have internal standard area counts that are outside the upper limit of primary criteria. Hits are qualified "J" and non-detects are not flagged.

ECRS6

Phenol, bis(2-Chloroethyl)ether, 2-Chlorophenol, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 2-Methylphenol, 2,2'-oxybis(1-Chloropropane), 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane, Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, bis(2-Chloroethoxy)methane, 2,4-Dichlorophenol, 1,2,4-Trichlorobenzene, Naphthalene, 4-Chloroaniline, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2-Choronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 2,6-Dinitrotoluene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine (1), 4-Bromophenyl-phenylether, Hexachlorobenzene, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

ECRQ2, ECRS4, ECRS6, ECRT0, ECRT8
 Chlorobenzene

ECRR9, ECRS9
 Benzene

ECRS1
 1,1,1-Trichloroethane, Chlorobenzene

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
 Date: July 7, 1999

Case Number : 26993⁴²
Site Name: KRUMRICH PLANT (IL)

SDG Number: ECRR7
Laboratory: SWOK

ECRS0DL

2-Chlorophenol, 1,3-Dichlorobenzene, Nitrobenzene, 2,4-Dichlorophenol, Naphthalene,
4-Chloroaniline, 2,4,6-Trichlorophenol, Pentachlorophenol

ECRS2

1,3-Dichlorobenzene, 1,2-Dichlorobenzene, 4-Chloroaniline, Pentachlorophenol,
Di-n-butylphthalate

ECRS3

2-Chlorophenol, 1,4-Dichlorobenzene, Naphthalene

ECRS4

1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dibenzofuran, Phenanthrene, Di-n-butylphthalate

ECRS5

2-Chlorophenol, 2,4,5-Trichlorophenol

ECRS5DL

2,4-Dichlorophenol

ECRS6

2-Chlorophenol, 1,3-Dichlorobenzene, 2,4-Dichlorophenol, 1,2,4-Trichlorobenzene,
Pentachlorophenol, Di-n-butylphthalate

ECRS6DL

1,3-Dichlorobenzene, 1,2-Dichlorobenzene, 2,4-Dichlorophenol, 1,2,4-Trichlorobenzene,
4-Chloroaniline, Pentachlorophenol

ECRS7

Diethylphthalate, Di-n-butylphthalate

ECRS8

Diethylphthalate, Pentachlorophenol

ECRS9

Phenol, 1,3-Dichlorobenzene, Naphthalene, 2,4,6-Trichlorophenol, Pentachlorophenol

ECRS9DL

2-Chlorophenol, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

ECRT0

Pentachlorophenol

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: July 7, 1999

Case Number : 26993
Site Name: KRUMRICH PLANT (IL)

SDG Number: ECRR7
Laboratory: SWOK

ECRR8

beta-BHC, gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endrin ketone, Endrin aldehyde, alpha-Chlordane

ECRR8DL

Heptachlor epoxide, 4,4'-DDE

ECRS0

alpha-BHC, Heptachlor, Endosulfan II, 4,4'-DDD, Endrin aldehyde, gamma-Chlordane

ECRS0DL

4,4'-DDT

ECRS2

alpha-BHC, beta-BHC, Heptachlor epoxide

ECRS3

Heptachlor, Heptachlor epoxide

ECRS4

Endosulfan sulfate

ECRS5

Methoxychlor

ECRS6

Heptachlor epoxide, Dieldrin, Endrin, Endrin aldehyde, alpha-Chlordane

ECRS9

alpha-BHC

ECRW0

alpha-BHC, Heptachlor epoxide

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

All VOA samples had a pH value of < 2. The pH values for the SV and P/P fractions are located within the Analytical Results spreadsheets.

Reviewed By: A.C. Harvey/Lockheed-Martin ESAT
Date: July 7, 1999

CADRE Data Qualifier Sheet

Qualifiers Data Qualifier Definitions

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

PC LOG IN SHEET

35-Day CADRE
Transmit no-
review data

DATE RECEIVED

June 9, 1999

USER

IEPA

SITE NAME

Krumrich Plant (IL)

CASE NUMBER

26993

SAMPLING DATE

5/10 - 12/99

DATE SHIPPED

5/11 - 13/99

CONTRACT LAB

Sentinel

NUMBER OF SAMPLES

17

DATE TO LSSS/USER

June 9, 1999

SDG#

MEBWP8

TFA\TGB

SAMPLES	MATRIX	ANALYSES
MEBWP8, 9	Water	Metal, Cyanide
MEBWQ0-9	↓	↓
MEBWRO, 1	↓	↓
MEBWTT - 9	↓	↓

RECEIVED

JUN 14 1999

Surface Water Section
BUREAU OF WATER

* MAKE SURE YOU HAVE LOGGED THIS IN THE BOOK TO CPMS (LSSS) *

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on June 9, 1999

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Kraumrich Plant (IL)

CASE NUMBER: 26993 SDG NUMBER: MEBWP8

Number and Type of Samples: 17 Waters

Sample Numbers: MEBWP8, 9 MEBWQF-9, MEBWRQ, 1

MEBWTF-9
Laboratory: Sentinel Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

...

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SENTINEL, INC.

Contract: 68-D6-0001

Lab Code: SENTIN

Case No.: 26993

SAS No.:

SDG No.: MEBWP8

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MEBWP8	19713S
MEBWP9	19714S
MEBWQ0	19715S
MEBWQ1	19716S
MEBWQ2	19717S
MEBWQ3	19718S
MEBWQ4	19930S
MEBWQ5	19719S
MEBWQ6	19931S
MEBWQ7	19932S
MEBWQ8	19933S
MEBWQ9	19934S
MEBWR0	19935S
MEBWR1	19936S
MEBWT7	19937S
MEBWT7D	19937S2
MEBWT7S	19937DS
MEBWT8	19720S
MEBWT9	19721S

JUN 09 1999

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

Potassium is estimated due to possible Matrix interference.
 Cool temperatures measured 7.0°C & 9.5°C. Please refer to Record # _____
 regarding anomalies with EPA sample numbers and tag numbers.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name:

Brian J. Moore

Date:

Title:

QA/QC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-101
ECRR7

Lab Name: SWL-TULSA

Contract: 68-D5-0021

Lab Code: SWOK

Case No.: 26993

SAS No.:

SDG No.: ECRR7

Matrix: (soil/water) WATER

Lab Sample ID: 38465.01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L37997.D

Level: (low/med) LOW

Date Received: 05/11/99

% Moisture: not dec.

Date Analyzed: 05/20/99

GC Column:DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
74-87-3-----	Chloromethane	10		U
74-83-9-----	Bromomethane	10		U
75-01-4-----	Vinyl Chloride	10		U
75-00-3-----	Chloroethane	10		U
75-09-2-----	Methylene Chloride	5		JB
67-64-1-----	Acetone	10		U
75-15-0-----	Carbon Disulfide	10		U
75-35-4-----	1,1-Dichloroethene	10		U
75-34-3-----	1,1-Dichloroethane	10		U
540-59-0-----	1,2-Dichloroethene (total)	10		U
67-66-3-----	Chloroform	10		U
107-06-2-----	1,2-Dichloroethane	10		U
78-93-3-----	2-Butanone	10		U
71-55-6-----	1,1,1-Trichloroethane	10		U
56-23-5-----	Carbon Tetrachloride	10		U
75-27-4-----	Bromodichloromethane	10		U
78-87-5-----	1,2-Dichloropropane	10		U
10061-01-5-----	cis-1,3-Dichloropropene	10		U
79-01-6-----	Trichloroethene	10		U
124-48-1-----	Dibromochloromethane	10		U
79-00-5-----	1,1,2-Trichloroethane	10		U
71-43-2-----	Benzene	10		U
10061-02-6-----	trans-1,3-Dichloropropene	10		U
75-25-2-----	Bromoform	10		U
108-10-1-----	4-Methyl-2-Pentanone	10		U
591-78-6-----	2-Hexanone	10		U
127-18-4-----	Tetrachloroethene	10		U
79-34-5-----	1,1,2,2-Tetrachloroethane	10		U
108-88-3-----	Toluene	10		U
108-90-7-----	Chlorobenzene	10		U
100-41-4-----	Ethylbenzene	10		U
100-42-5-----	Styrene	10		U
1330-20-7-----	Xylene (Total)	10		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68-D5-0021

G101
ECRR7

Lab Code: SWOK

Case No.: 26993

SAS No.:

SDG No.: ECRR7

Matrix: (soil/water) WATER

Lab Sample ID: 38465.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J2716.D

Level: (low/med) LOW

Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 05/12/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/17/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	19	_____
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	17	_____
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: 68-D5-0021

ECRR7

Lab Code: SWOK

Case No.: 26993

SAS No.:

SDG No.: ECRR7

Matrix: (soil/water) WATER

Lab Sample ID: 38465.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J2716.D

Level: (low/med) LOW

Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 05/12/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/17/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
---------	----------	---	------	---

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	0.8	BJ
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECRR7

Lab Name: SWL-TULSA

Contract: 68-D5-0021

Lab Code: SWOK

Case No.: 26993

SAS No.:

SDG No.: ECRR7

Matrix: (soil/water) WATER

Lab Sample ID: 38465.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J2716.D

Level: (low/med) LOW

Date Received: 05/11/99

% Moisture: decanted: (Y/N) N

Date Extracted: 05/12/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/17/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.83	14	BJ
2. 95-51-2	O-CHLOROANILINE	6.40	8	JN
3.	UNKNOWN	21.10	8	J
4.	UNKNOWN	21.21	7	BJ
5.	UNKNOWN	21.27	9	J
6.	UNKNOWN	21.41	13	BJ
7.	UNKNOWN	21.52	11	BJ
8.	UNKNOWN	21.60	10	J
9.	UNKNOWN	21.66	13	J
10.	UNKNOWN	21.71	14	J
11.	UNKNOWN	21.83	10	J
12.	UNKNOWN	21.88	23	BJ
13.	UNKNOWN	21.95	13	BJ
14.	UNKNOWN	22.01	17	BJ
15.	UNKNOWN	22.14	18	J
16.	UNKNOWN	22.28	27	J
17.	UNKNOWN	22.32	10	J
18.	UNKNOWN	22.39	9	J
19.	UNKNOWN	22.43	15	J
20.	UNKNOWN	22.49	11	J
21.	UNKNOWN	22.71	12	J
22.	UNKNOWN	22.89	8	J
23.	UNKNOWN	22.94	8	J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-101
ECRR7

Lab Name: SWL-TULSA

Contract: 68-D5-0021

Lab Code: SWOK

Case No.: 26993

SAS No.:

SDG No.: ECRR7

Matrix: (soil/water) WATER

Lab Sample ID: 38465.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 05/11/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 05/12/99

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 06/03/99

Injection Volume: 0.5(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

COMPOUND

(ug/L or ug/Kg) UG/L

Q

319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.050	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
76-44-8-----Heptachlor	0.050	U
309-00-2-----Aldrin	0.050	U
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	U
60-57-1-----Dieldrin	0.10	U
72-55-9-----4,4'-DDE	0.10	U
72-20-8-----Endrin	0.10	U
33213-65-9-----Endosulfan II	0.10	U
72-54-8-----4,4'-DDD	0.10	U
1031-07-8-----Endosulfan sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.10	U
7421-93-4-----Endrin aldehyde	0.10	U
5103-71-9-----alpha-Chlordane	0.050	U
5103-74-2-----gamma-Chlordane	0.050	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101
MEBWP8

Lab Name: SENTINEL, INC.

Contract: 68-D6-0001

Lab Code: SENTIN

Case No.: 26993

SAS No.:

SDG No.: MEBWP8

Matrix (soil/water): WATER

Lab Sample ID: 19713S

Level (low/med): LOW

Date Received: 05/12/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27200			P
7440-36-0	Antimony	2.1	U	N	P
7440-38-2	Arsenic	32.2			P
7440-39-3	Barium	1310			P
7440-41-7	Beryllium	2.5	B		P
7440-43-9	Cadmium	2.1	B		P
7440-70-2	Calcium	272000			P
7440-47-3	Chromium	36.3			P
7440-48-4	Cobalt	29.2	B		P
7440-50-8	Copper	57.2			P
7439-89-6	Iron	48200			P
7439-92-1	Lead	50.0		*	P
7439-95-4	Magnesium	76300			P
7439-96-5	Manganese	1520			P
7439-97-6	Mercury	0.60			CV
7440-02-0	Nickel	86.6			P
7440-09-7	Potassium	9900	E		P
7782-49-2	Selenium	4.1	B	N	P
7440-22-4	Silver	0.90	B		P
7440-23-5	Sodium	46100			P
7440-28-0	Thallium	5.6	U		P
7440-62-2	Vanadium	78.1			P
7440-66-6	Zinc	235			P
	Cyanide	2.4	B		CA

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:
